

# Moninya Roughan

## List of Publications by Year in descending order

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Version: 2024-02-01

100  
papers

4,160  
citations

126907

33  
h-index

133252

59  
g-index

111  
all docs

111  
docs citations

111  
times ranked

4209  
citing authors

#	ARTICLE	IF	CITATIONS
1	Entrainment and development of larval fish assemblages in two contrasting cold core eddies of the East Australian Current system. <i>Marine Ecology - Progress Series</i> , 2022, 685, 1-18.	1.9	5
2	Shelf Transport Pathways Adjacent to the East Australian Current Reveal Sources of Productivity for Coastal Reefs. <i>Frontiers in Marine Science</i> , 2022, 8, .	2.5	12
3	Impact of Mesoscale Circulation on the Structure of River Plumes During Large Rainfall Events Inshore of the East Australian Current. <i>Frontiers in Marine Science</i> , 2022, 9, .	2.5	7
4	Multi-decadal ocean temperature time-series and climatologies from Australia's long-term National Reference Stations. <i>Scientific Data</i> , 2022, 9, 157.	5.3	6
5	Why the Mixed Layer Depth Matters When Diagnosing Marine Heatwave Drivers Using a Heat Budget Approach. <i>Frontiers in Climate</i> , 2022, 4, .	2.8	11
6	Evaluation of four global ocean reanalysis products for New Zealand waters – A guide for regional ocean modelling. <i>New Zealand Journal of Marine and Freshwater Research</i> , 2021, 55, 132-155.	2.0	22
7	The Rate of Coastal Temperature Rise Adjacent to a Warming Western Boundary Current is Nonuniform with Latitude. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090751.	4.0	24
8	Oceanographic conditions associated with white shark ( <i>Carcharodon carcharias</i> ) habitat use along eastern Australia. <i>Marine Ecology - Progress Series</i> , 2021, 659, 143-159.	1.9	18
9	Efficacy of Feedforward and LSTM Neural Networks at Predicting and Gap Filling Coastal Ocean Timeseries: Oxygen, Nutrients, and Temperature. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	13
10	Boundary Ocean Observation Network for the Global South. <i>Marine Technology Society Journal</i> , 2021, 55, 80-81.	0.4	1
11	Oceanic Circulation Drives the Deepest and Longest Marine Heatwaves in the East Australian Current System. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094785.	4.0	33
12	The physics of New Zealand's shelf seas: introduction to the special issue. <i>New Zealand Journal of Marine and Freshwater Research</i> , 2021, 55, 1-5.	2.0	2
13	Dynamics of Interannual Eddy Kinetic Energy Modulations in a Western Boundary Current. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	27
14	An assessment of the East Australian Current as a renewable energy resource. <i>Journal of Marine Systems</i> , 2020, 204, 103285.	2.1	3
15	Predicting the submesoscale circulation inshore of the East Australian Current. <i>Journal of Marine Systems</i> , 2020, 204, 103286.	2.1	11
16	Assessing the Impact of Nontraditional Ocean Observations for Prediction of the East Australian Current. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016580.	2.6	5
17	Daily Subsurface Ocean Temperature Climatology Using Multiple Data Sources: New Methodology. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	5
18	Combined mechanistic modelling predicts changes in species distribution and increased co-occurrence of a tropical urchin herbivore and a habitat-forming temperate kelp. <i>Diversity and Distributions</i> , 2020, 26, 1211-1226.	4.1	20

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19	A Water Mass Classification Approach to Tracking Variability in the East Australian Current. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	11
20	Building multidisciplinary collaboration in coastal and ocean modelling and observation in Australasia. <i>Journal of Marine Systems</i> , 2020, 206, 103319.	2.1	0
21	Eddyâ€Driven Crossâ€Shelf Transport in the East Australian Current Separation Zone. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015613.	2.6	31
22	Future ocean temperature impacting the survival prospects of post-larval spiny lobsters. <i>Marine Environmental Research</i> , 2020, 156, 104918.	2.5	6
23	Downstream Evolution of the East Australian Current System: Mean Flow, Seasonal, and Intraâ€annual Variability. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015227.	2.6	29
24	Multiple spawning events promote increased larval dispersal of a predatory fish in a western boundary current. <i>Fisheries Oceanography</i> , 2020, 29, 309-323.	1.7	33
25	Observations of Submesoscale Variability and Frontal Subduction within the Mesoscale Eddy Field of the Tasman Sea. <i>Journal of Physical Oceanography</i> , 2020, 50, 1509-1529.	1.7	23
26	Transport variability over the Hawkesbury Shelf (31.5â€34.5Â°S) driven by the East Australian Current. <i>PLoS ONE</i> , 2020, 15, e0241622.	2.5	12
27	Spill-over from aquaculture may provide a larval subsidy for the restoration of mussel reefs. <i>Aquaculture Environment Interactions</i> , 2020, 12, 231-249.	1.8	22
28	Global Perspectives on Observing Ocean Boundary Current Systems. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	39
29	Revisiting the circulation of the East Australian Current: Its path, separation, and eddy field. <i>Progress in Oceanography</i> , 2019, 176, 102139.	3.2	65
30	OceanGliders: A Component of the Integrated GOOS. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	83
31	Coastal Mooring Observing Networks and Their Data Products: Recommendations for the Next Decade. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	24
32	The Importance of Connected Ocean Monitoring Knowledge Systems and Communities. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	31
33	A high-resolution biogeochemical model (ROMS 3.4â€+â€bio_Fennel) of the East Australian Current system. <i>Geoscientific Model Development</i> , 2019, 12, 441-456.	3.6	10
34	Developing an Integrated Ocean Observing System for New Zealand. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	12
35	Retention and Leakage of Water by Mesoscale Eddies in the East Australian Current System. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 2485-2500.	2.6	21
36	East Australian Current. , 2019, , 340-350.		1

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37	Numerical modelling of the Sydney Harbour Estuary, New South Wales: Lateral circulation and asymmetric vertical mixing. <i>Estuarine, Coastal and Shelf Science</i> , 2019, 217, 132-147.	2.1	14
38	Mesoscale circulation determines broad spatio-temporal settlement patterns of lobster. <i>PLoS ONE</i> , 2019, 14, e0211722.	2.5	18
39	Environmental drivers of abundance and residency of a large migratory shark, <i>Carcharhinus leucas</i> , inshore of a dynamic western boundary current. <i>Marine Ecology - Progress Series</i> , 2019, 622, 121-137.	1.9	37
40	Nitrate Sources, Supply, and Phytoplankton Growth in the Great Australian Bight: An Eulerian-Lagrangian Modeling Approach. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 759-772.	2.6	6
41	Assessment of Surface Currents Measured With High-Frequency Phased-Array Radars in Two Regions of Complex Circulation. <i>IEEE Journal of Oceanic Engineering</i> , 2018, 43, 484-505.	3.8	15
42	Assessing the Use of Area- and Time-Averaging Based on Known De-correlation Scales to Provide Satellite Derived Sea Surface Temperatures in Coastal Areas. <i>Frontiers in Marine Science</i> , 2018, 5, .	2.5	10
43	Observation Impact in a Regional Reanalysis of the East Australian Current System. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 7511-7528.	2.6	26
44	The Kinematic Similarity of Two Western Boundary Currents Revealed by Sustained High-Resolution Observations. <i>Geophysical Research Letters</i> , 2018, 45, 6176-6185.	4.0	21
45	Environmental correlates of relative abundance of potentially dangerous sharks in nearshore areas, southeastern Australia. <i>Marine Ecology - Progress Series</i> , 2018, 599, 157-179.	1.9	25
46	Anticipating changes to future connectivity within a network of marine protected areas. <i>Global Change Biology</i> , 2017, 23, 3533-3542.	9.5	60
47	Lagrangian and Eulerian characterization of two counter-rotating submesoscale eddies in a western boundary current. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 4902-4921.	2.6	28
48	Characterizing frontal eddies along the East Australian Current from HF radar observations. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 3964-3980.	2.6	66
49	Subsurface intensification of marine heatwaves off southeastern Australia: The role of stratification and local winds. <i>Geophysical Research Letters</i> , 2017, 44, 5025-5033.	4.0	85
50	A tale of two eddies: The biophysical characteristics of two contrasting cyclonic eddies in the East Australian Current System. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 2494-2518.	2.6	53
51	On the Variability of the East Australian Current: Jet Structure, Meandering, and Influence on Shelf Circulation. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 8464-8481.	2.6	65
52	The Marine Virtual Laboratory (version 2.1): enabling efficient ocean model configuration. <i>Geoscientific Model Development</i> , 2016, 9, 3297-3307.	3.6	1
53	Development and evaluation of a high-resolution reanalysis of the East Australian Current region using the Regional Ocean Modelling System (ROMS 3.4) and Incremental Strong-Constraint 4-Dimensional Variational (IS4D-Var) data assimilation. <i>Geoscientific Model Development</i> , 2016, 9, 3779-3801.	3.6	46
54	Physical and biogeochemical spatial scales of variability in the East Australian Current separation from shelf glider measurements. <i>Biogeosciences</i> , 2016, 13, 1967-1975.	3.3	28

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55	Seasonal variability in the continental shelf waters off southeastern Australia: Fact or fiction?. <i>Continental Shelf Research</i> , 2016, 112, 92-103.	1.8	25
56	The formation of a cold-core eddy in the East Australian Current. <i>Continental Shelf Research</i> , 2016, 114, 72-84.	1.8	24
57	Mean hydrography on the continental shelf from 26 repeat glider deployments along Southeastern Australia. <i>Scientific Data</i> , 2016, 3, 160070.	5.3	13
58	Sydney Harbour: what we do and do not know about a highly diverse estuary. <i>Marine and Freshwater Research</i> , 2015, 66, 1073.	1.3	49
59	Cyclonic entrainment of preconditioned shelf waters into a frontal eddy. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 677-691.	2.6	35
60	Strengthened currents override the effect of warming on lobster larval dispersal and survival. <i>Global Change Biology</i> , 2015, 21, 4377-4386.	9.5	65
61	Sydney Harbour: a review of anthropogenic impacts on the biodiversity and ecosystem function of one of the world. <i>Marine and Freshwater Research</i> , 2015, 66, 1088.	1.3	73
62	Comparison of the cross-shelf phytoplankton distribution of two oceanographically distinct regions off Australia. <i>Journal of Marine Systems</i> , 2015, 148, 26-38.	2.1	14
63	Interactions between seasonality and oceanic forcing drive the phytoplankton variability in the tropical-temperate transition zone (~ 30°S) of Eastern Australia. <i>Journal of Marine Systems</i> , 2015, 144, 92-106.	2.1	21
64	Influence of a western boundary current on shelf dynamics and upwelling from repeat glider deployments. <i>Geophysical Research Letters</i> , 2015, 42, 121-128.	4.0	35
65	Sustained Ocean Observing along the Coast of Southeastern Australia. , 2015, , 76-98.		19
66	Observed bottom boundary layer transport and uplift on the continental shelf adjacent to a western boundary current. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 4922-4939.	2.6	62
67	The tropicalization of temperate marine ecosystems: climate-mediated changes in herbivory and community phase shifts. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140846.	2.6	679
68	Seasonality of sporadic physical processes driving temperature and nutrient high-frequency variability in the coastal ocean off southeast Australia. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 445-460.	2.6	32
69	Long-term trends in the East Australian Current separation latitude and eddy driven transport. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 4351-4366.	2.6	116
70	Phytoplankton composition under contrasting oceanographic conditions: Upwelling and downwelling (Eastern Australia). <i>Continental Shelf Research</i> , 2014, 75, 54-67.	1.8	45
71	Relative impact of seasonal and oceanographic drivers on surface chlorophyll a along a Western Boundary Current. <i>Progress in Oceanography</i> , 2014, 120, 340-351.	3.2	64
72	IMOS National Reference Stations: A Continental-Wide Physical, Chemical and Biological Coastal Observing System. <i>PLoS ONE</i> , 2014, 9, e113652.	2.5	81

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73	On the factors influencing the development of sporadic upwelling in the Leeuwin Current system. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 3608-3621.	2.6	47
74	Linking synoptic forcing and local mesoscale processes with biological dynamics off Ningaloo Reef. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 1211-1225.	2.6	16
75	Cross-Shelf Dynamics in a Western Boundary Current Regime: Implications for Upwelling. <i>Journal of Physical Oceanography</i> , 2013, 43, 1042-1059.	1.7	72
76	Temperate shelf water dispersal by Australian boundary currents: Implications for population connectivity. <i>Limnology &amp; Oceanography Fluids &amp; Environments</i> , 2013, 3, 295-309.	1.7	38
77	A numerical modeling study of the East Australian Current encircling and overwashing a warm-core eddy. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 301-315.	2.6	16
78	Formation and maintenance of high-nitrate, low pH layers in the eastern Indian Ocean and the role of nitrogen fixation. <i>Biogeosciences</i> , 2013, 10, 5691-5702.	3.3	10
79	Finding a proxy for wind stress over the coastal ocean. <i>Marine and Freshwater Research</i> , 2012, 63, 528.	1.3	23
80	Connectivity of Estuaries. , 2011, , 119-142.		7
81	Modelling coastal connectivity in a Western Boundary Current: Seasonal and inter-annual variability. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 628-644.	1.4	81
82	The effect of surface flooding on the physical and biogeochemical dynamics of a warm-core eddy off southeast Australia. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 592-605.	1.4	48
83	Characteristic ichthyoplankton taxa in the separation zone of the East Australian Current: Larval assemblages as tracers of coastal mixing. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 678-690.	1.4	31
84	Variation in the strength of continental boundary currents determines continent-wide connectivity in kelp. <i>Journal of Ecology</i> , 2011, 99, 1026-1032.	4.0	102
85	Using high-resolution ocean timeseries data to give context to long term hydrographic sampling off Port Hacking, NSW, Australia. , 2011, , .		7
86	NSW-IMOS: An Integrated Marine Observing System for Southeastern Australia. <i>IOP Conference Series: Earth and Environmental Science</i> , 2010, 11, 012030.	0.3	12
87	Temperature variability in a shallow, tidally isolated coral reef lagoon. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	36
88	A National Reference Station infrastructure for Australia - Using telemetry and central processing to report multi-disciplinary data streams for monitoring marine ecosystem response to climate change. , 2008, , .		6
89	Transport and retention in an upwelling region: The role of across-shelf structure. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 2931-2955.	1.4	36
90	WEST: A northern California study of the role of wind-driven transport in the productivity of coastal plankton communities. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 2833-2849.	1.4	104

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91	Observations of divergence and upwelling around Point Loma, California. Journal of Geophysical Research, 2005, 110, .	3.3	40
92	Subsurface recirculation and larval retention in the lee of a small headland: A variation on the upwelling shadow theme. Journal of Geophysical Research, 2005, 110, .	3.3	92
93	Mass-transfer-limited nitrate uptake on a coral reef flat, Warraber Island, Torres Strait, Australia. Coral Reefs, 2004, 23, 386-396.	2.2	43
94	On the East Australian Current: Variability, encroachment, and upwelling. Journal of Geophysical Research, 2004, 109, .	3.3	109
95	A Modeling Study of the Climatological Current Field and the Trajectories of Upwelled Particles in the East Australian Current. Journal of Physical Oceanography, 2003, 33, 2551-2564.	1.7	34
96	An International Perspective on Graduate Education in Physical Oceanography. Oceanography, 2003, 16, 128-133.	1.0	2
97	Kick-off symposium series to help New Ph.D.s is a success. Eos, 2002, 83, 512.	0.1	0
98	A comparison of observed upwelling mechanisms off the east coast of Australia. Continental Shelf Research, 2002, 22, 2551-2572.	1.8	169
99	The Global Ocean Observing System. , 0, , .		6
100	Shelf and Coastal Ocean Observing and Modeling Systems: A New Frontier in Operational Oceanography. , 0, , .		0